

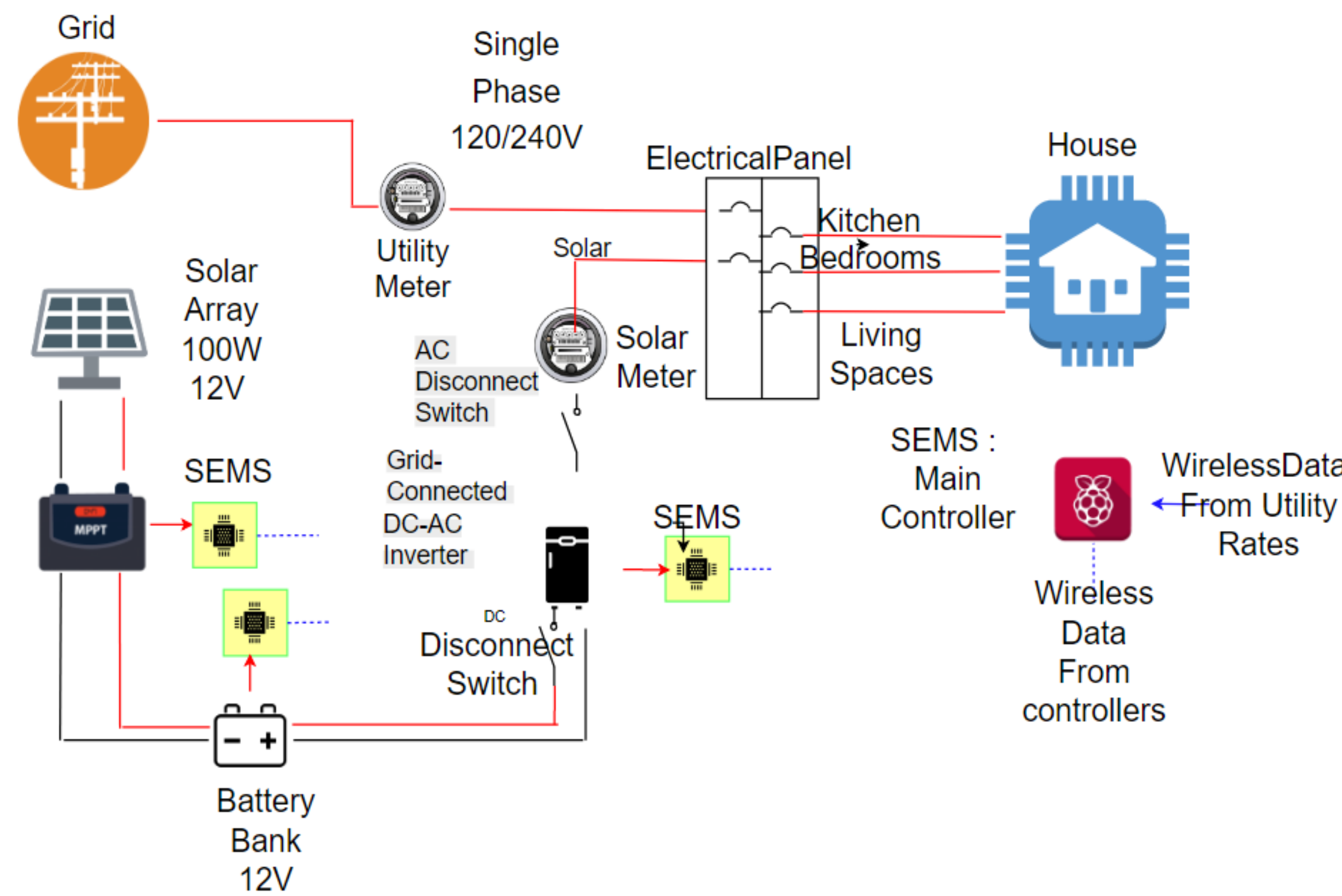


Smart Energy Management System

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Objective

The objective of this project is to develop an automated way to utilize a home's energy sources and storage to either to maximize the price savings or to maximize the use of green energy. This will help homeowners to save more from their solar and battery systems and to make their energy usage more green than it already is.



Timeline

Task/Week	1	2	3	4	5	6	7	8	9	10
Idea	█									
Schematics		█	█							
Python Script				█	█	█				
Purchases							█	█		
Hardware								█	█	█

Progress

Current

Software:

- Built script with Python to scrape data from CAISO website

Hardware:

- Purchased Wifi Modules & Raspberry Pi
- Started to connect some components together.

Future

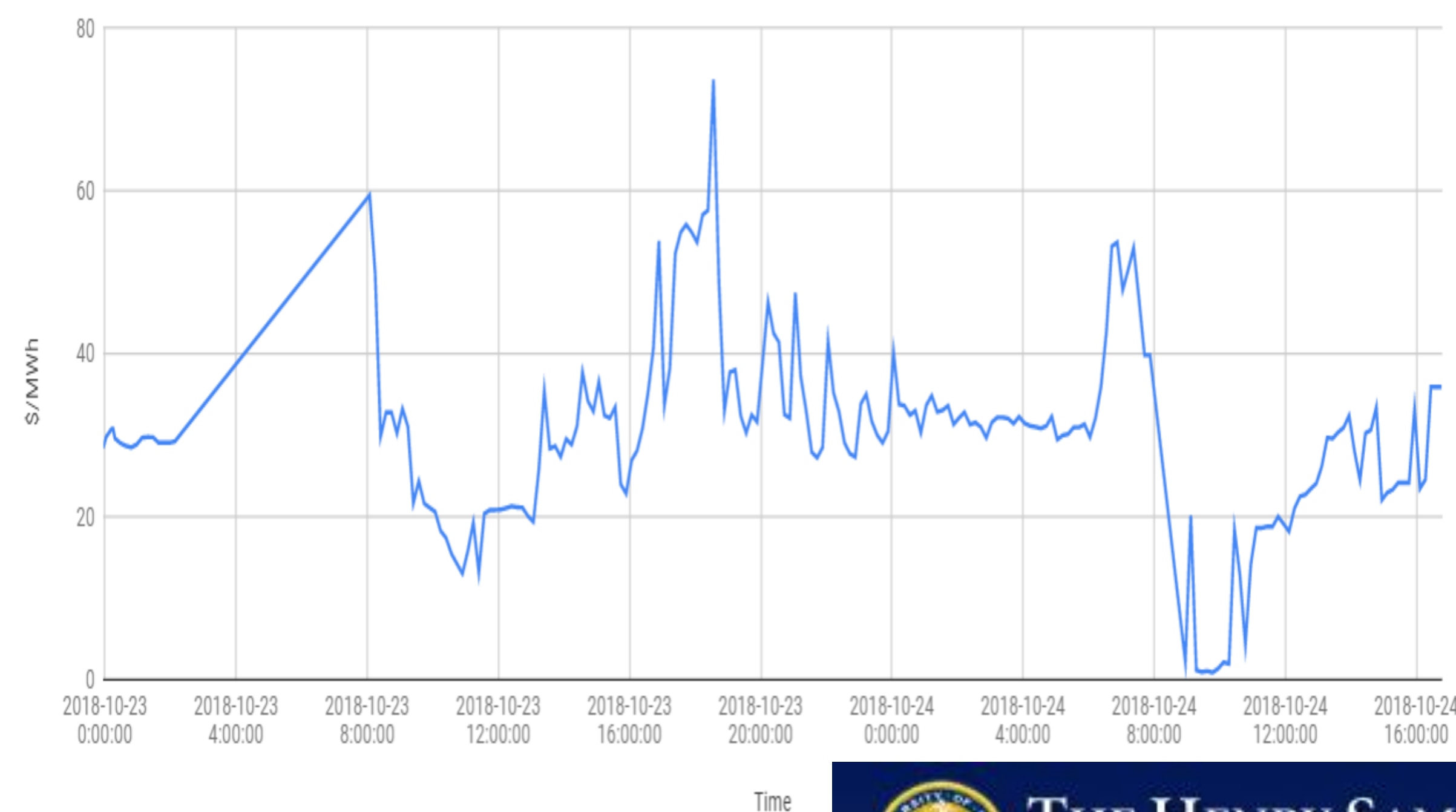
Software:

- Pull renewable energy data and Carbon emission data
- Start working on conditions for the main algorithm

Hardware:

- Create a smaller scale schematic for testing
- Create a network on the raspberry pi to collect data wireless

Time vs Price



Team Organization

- Alex Ly (Software)
- Gilberto Medina (Hardware)
- Yulissa Lemus (Hardware)
- Tiara Pranita (Hardware)
- Mindy Saylor (Software)
- Michael Green (Advisor)



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